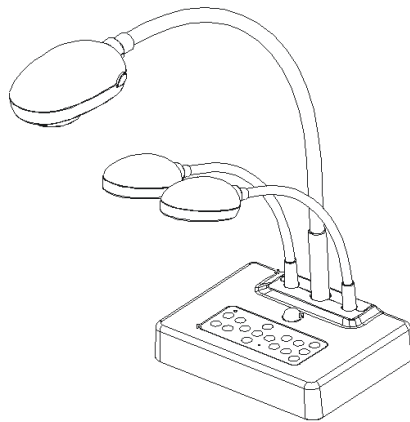


DC210 Visual Presenter

User Manual



[Important]

**To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens
<http://www.lumens.com.tw/qoto.htm>**

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Chapter 1 Precautions

Always follow these safety instructions when setting up and using the visual presenter:

1. Do not place visual presenter in tilted position.
2. Do not place the visual presenter on an unstable trolley, stand or table.
3. Do not use the visual presenter near water or source of heat.
4. Use attachments only as recommended.
5. Use the type of power source indicated on the visual presenter. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
6. Place the visual presenter on a place that it can be unplugged easily.
7. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire:
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
8. Do not overload wall sockets, extensions leads or multi-way plug boards as this may cause fire or electric shock.
9. Do not place the visual presenter where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
10. Unplug the projector from the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
11. Do not block the slots and openings in the projector case. They provide ventilation and prevent the visual presenter from overheating. Do not place the visual presenter on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
12. Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the visual presenter.
13. Except as specifically instructed in this User Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
14. Unplug the visual presenter during thunderstorms or if it is not going to be used for an extended period, do not place the visual presenter or remote control on top of heat-emitting equipment or heated objects such as a car and etc.
15. Unplug the visual presenter from the wall outlet and refer serving to licensed service personnel when the following situations happen:
 - If the power cable or plug becomes damaged or frayed.
 - If liquid is spilled into it or the visual presenter has been exposed to rain or water.





<Note>: Using an incorrect battery type in the remote control may result in breakdown. Follow your country's instructions on how to dispose of used batteries.

■ **Safety Precautions**

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

This visual presenter has a 3-wire AC line Plug. This is a safety feature to ensure that the plug will fit into the power outlet. Do not try to disable this safety feature.

If the visual presenter will not be used for a long period of time unplug it from the power outlet.

<div><div></div><div><div>Note</div><div>RISK OF ELECTRIC SHOCK</div></div><div></div></div>			
Note: To reduce the risk of electric shock. Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service Personnel.			
	This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock.		This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

■ **FCC Warning**

This equipment has been tested and found to comply with the limits for a Class A or B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

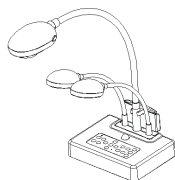
■ **EN55022 (CE Radiation) Warning**

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room or auditorium.

Chapter 2 Package Content

DC210

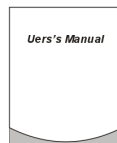


Quick Start Guide



English User Manual

(For download of other language versions, please visit Lumens website)



Base Installation Guide



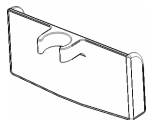
Download Card



Remote Control



Remote Control Box



VGA Cable



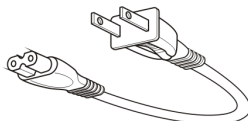
USB Cable



C-Video Cable



Power Cord



Appearance may vary with country/region

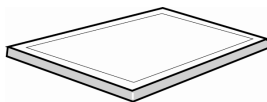
Microscope Adapter



Software Bag



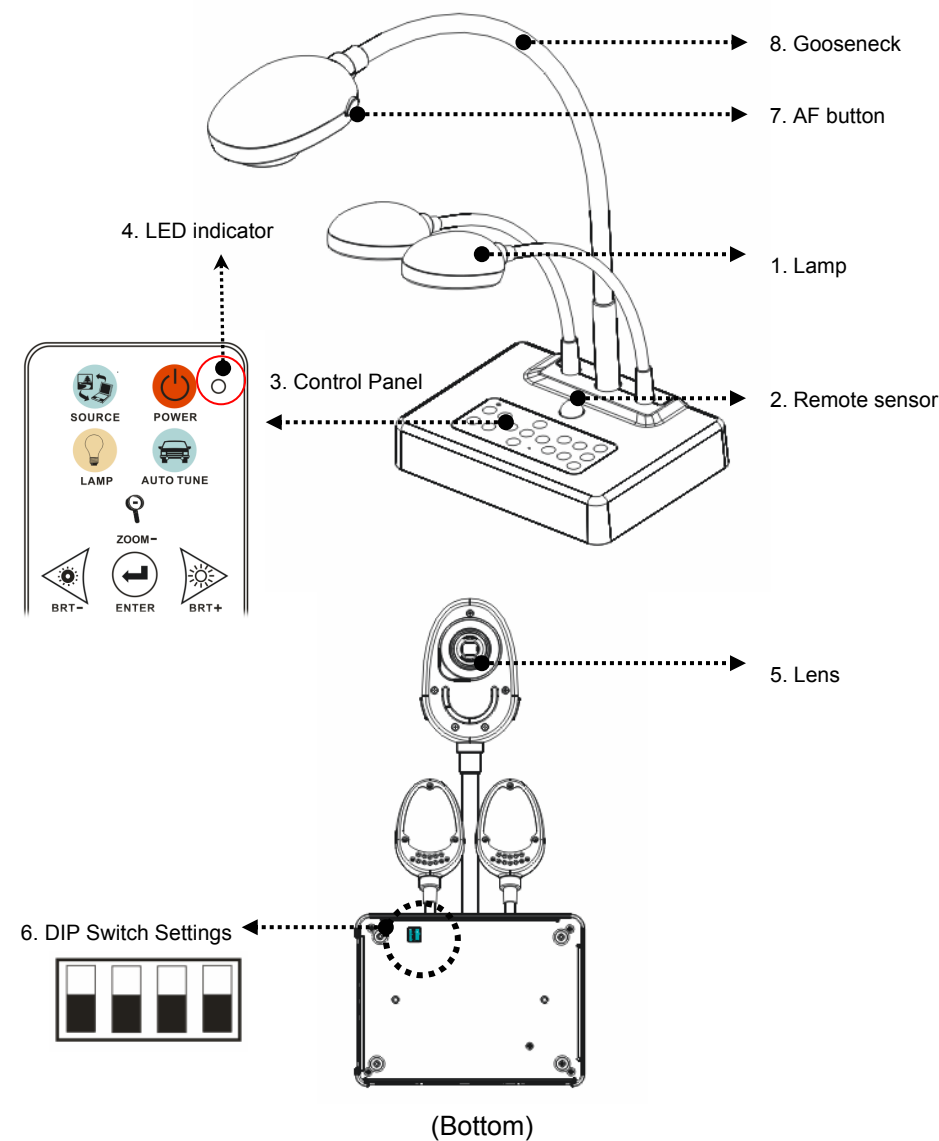
Backlight (Optional)



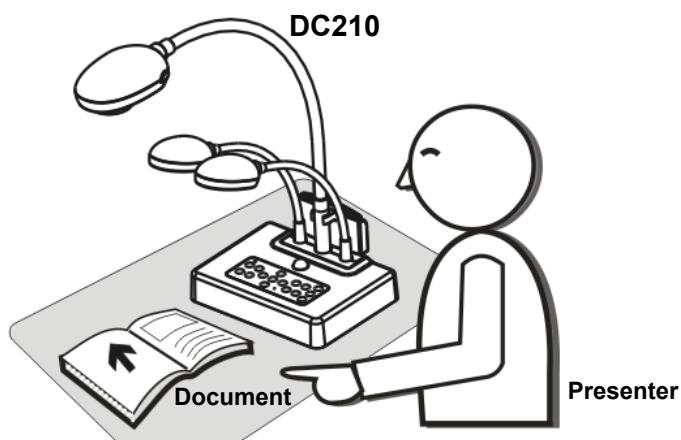
Padded Carry Bag (Optional)



Chapter 3 Product Overview

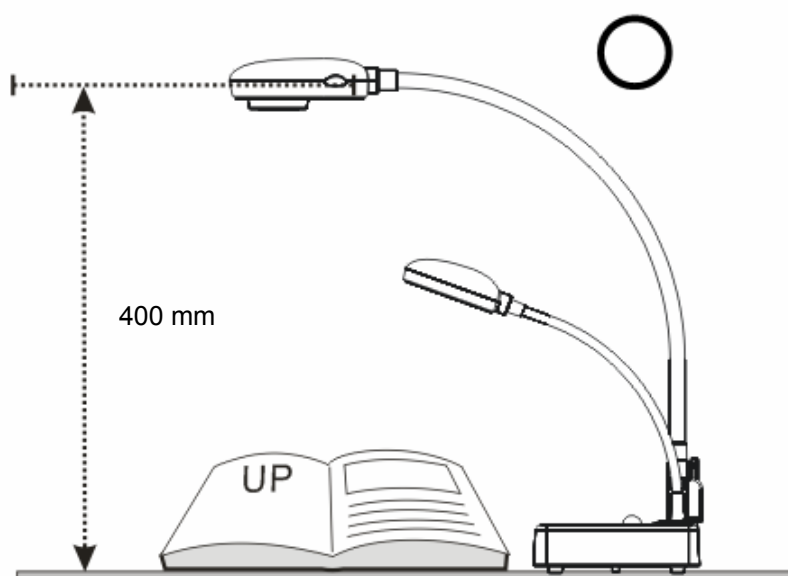


3.1 Relative position of the presenter and DC210

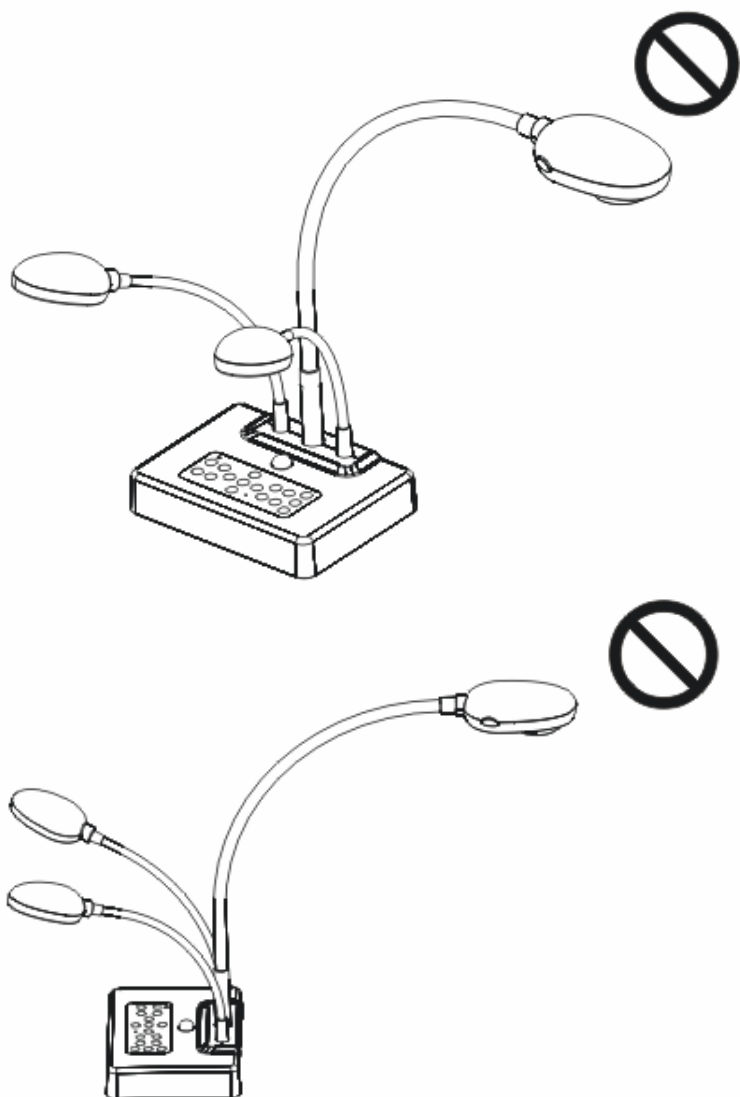


3.2 Recommend distance

- * About 400 mm distance between camera and the desktop is recommended.

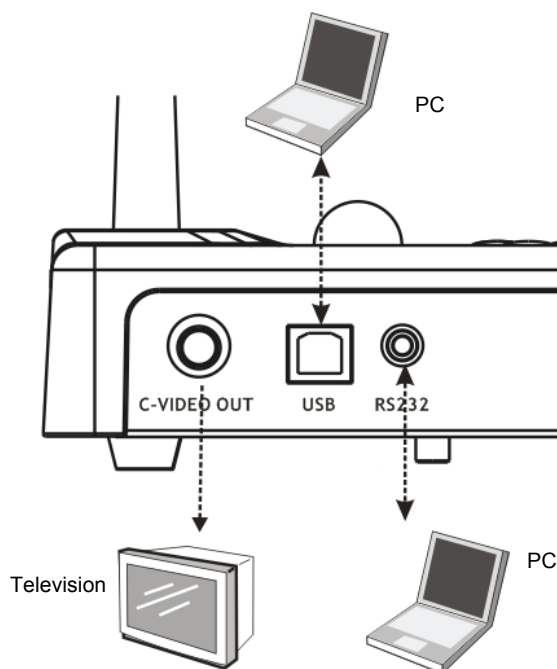
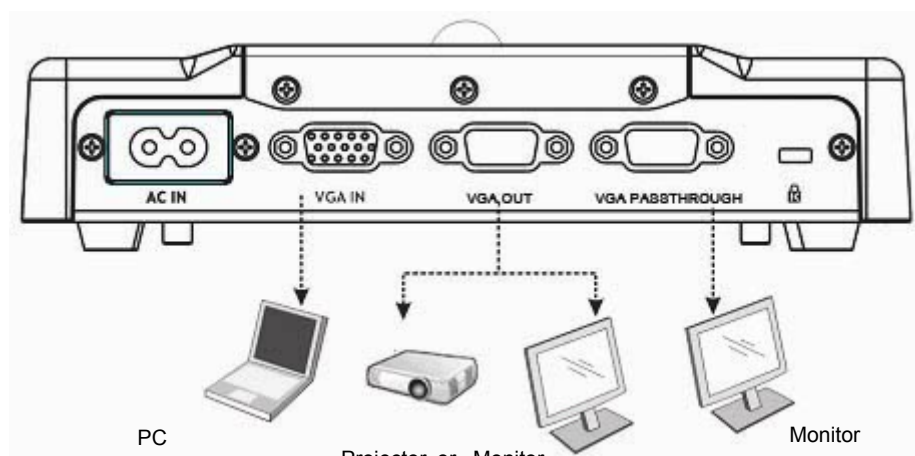


3.3 Incorrect use



Chapter 4 Installation and Connections

4.1 System Diagram

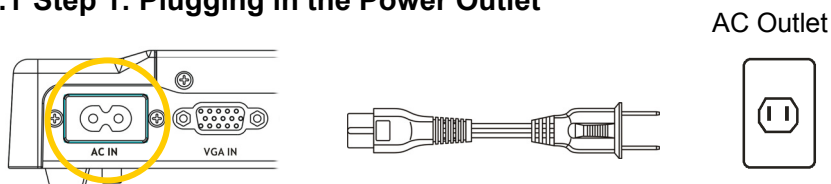


4.2 Mounting the DC210 at Desktop

1. Please set up the DIP Switch settings first. Refer to [Chapter 5 DIP Switch Settings](#) in the DC210 user manual.
2. Please refer to the [Base Installation Guide](#) for installation instructions for all parts.

4.3 Connecting with components

4.3.1 Step 1: Plugging in the Power Outlet

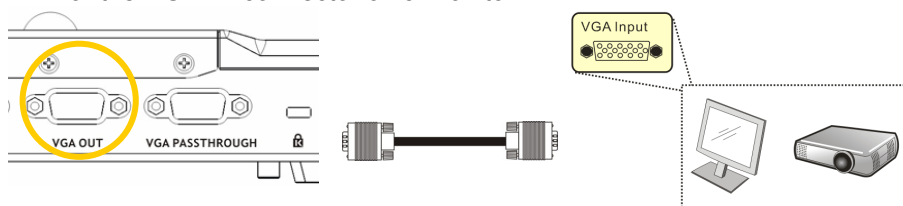


<Note>: Appearance of power cord may vary with countries / regions

4.3.2 Step 2: Connecting with components

➤ Connecting to a projector

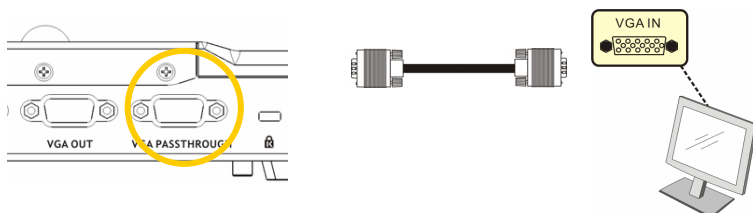
- Use **VGA** cable to connect **VGA OUT** connector on DC210 to a projector or the VGA IN connector on a monitor.



➤ Connecting to a monitor

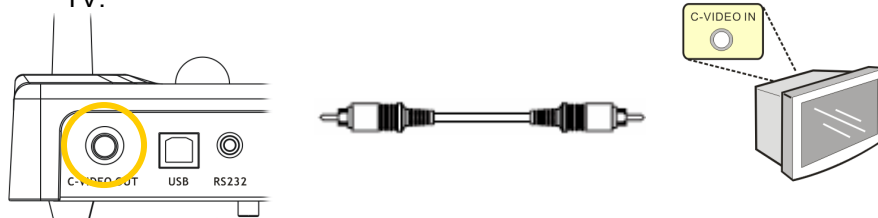
- Use **VGA** cable to connect **VGA PASSTHROUGH** connector on DC210 to the VGA IN connector on a monitor.

[Note] The **TO VGA PASSTHROUGH** connector only outputs **VGA IN** signals.



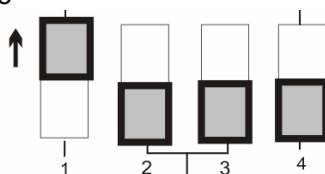
➤ Connecting to a TV

1. Using C-Video cable to connect C-Video OUT connector on DC210 to TV.

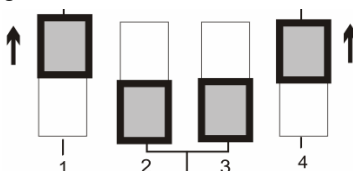


2. Adjust DIP Switch Setting.

- NTSC: America, Taiwan, Panama, Philippine, Canada, Chile, Japan, Korea and Mexico



- PAL: Country/region not listed above:



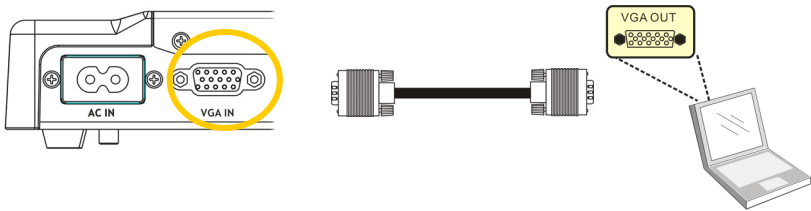
<Note>: In C-Video Mode, some buttons on the machine panel and remote control are not working.

<Note>: It doesn't support C-Video and VGA simultaneously. Once C-Video is on, VGA OUT is not supported.

3. After DC210 is re-started, new DIP switch configuration is effective.

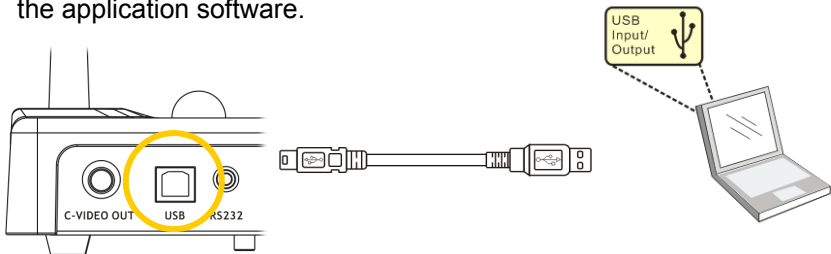
➤ Connecting to a computer

- Use VGA cable to connect VGA IN connector on DC210 to the VGA OUT connector on the computer.



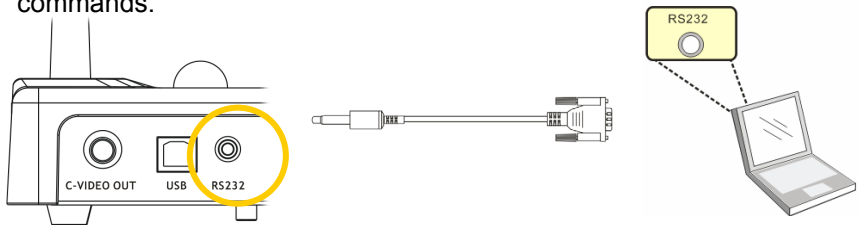
- Using USB cable

After using the USB cable to connect to a computer, please refer to **Chapter 4 Installation and Connection** of the User Manual to install the application software.

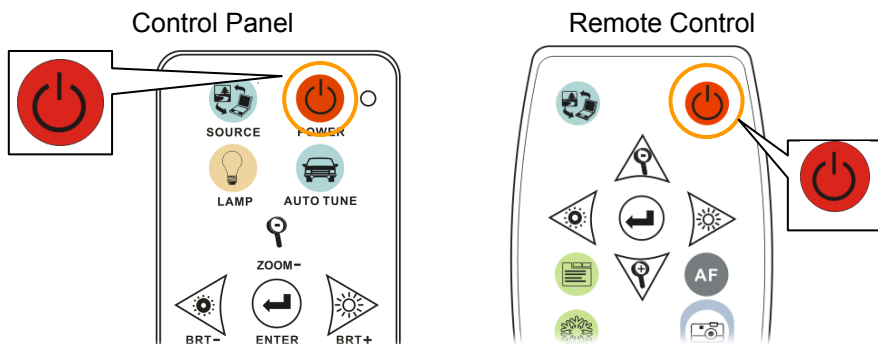


- Using RS232 Adapter cable (Optional)

After connecting the RS232 Adapter cable, you can use RS232 commands.



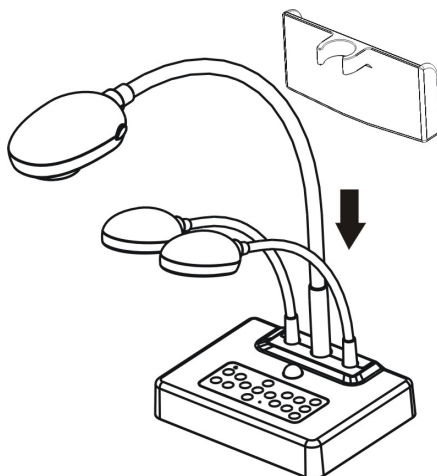
4.4 Start Using the DC210



- When using the **remote control**, aim at the receptor on the DC210, and press the power button.
- Once DC210 is turned on, the LED on the **control panel** will flash a few times and stay lit. Please contact your distributor if the LED is not on.

4.5 Installing remote control holder

Insert the holder over the gooseneck of the camera and push it down



4.6 Installing driver and application queue

After installing the USB driver and application queue, you can use the following functions via the software:

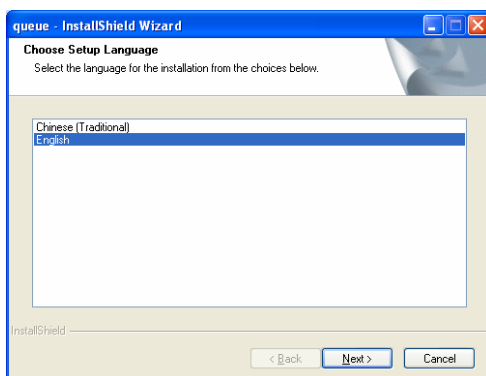
- Control the DC210.
- Capture and record images.
- Annotate the image, highlight important details and save it.
- Supports the full screen function.

4.6.1 System requirements

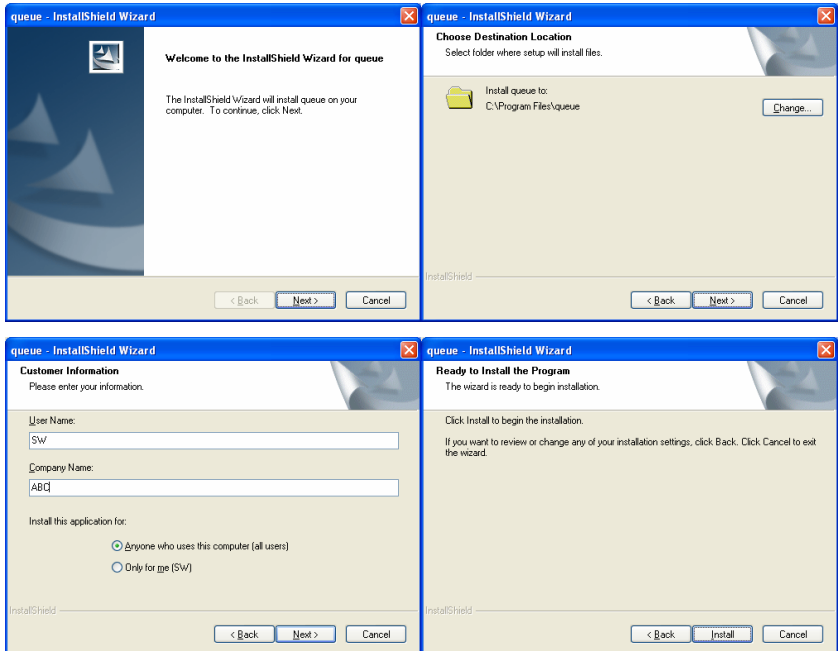
Operating System	<i>Windows XP</i>	<i>Windows Vista</i>	<i>MAC OS X v10.4.10, v10.5</i>
Minimum System Requirements	<ul style="list-style-type: none">● CPU: 2.8 GHz above● Memory: 512MB● Support Direct X 9● Resolution: 1024x768● Minimum Hard Disc Space Required: 100MB	<ul style="list-style-type: none">● CPU: 2.8 GHz above● Memory: 1GB● Support Direct X 9● Resolution: 1024x768● Minimum Hard Disc Space Required: 100MB	<ul style="list-style-type: none">● CPU: PowerPC G4 866MHz or Intel Pentium® 1.83GHz Intel Core 2 Duo processor● Memory: 512MB● 1,024 x 768 screen resolution and 24-bit color display● Minimum Hard Disc Space Required: 1GB● QuickTime 7.4.5 above

4.6.2 Installation steps (PC)

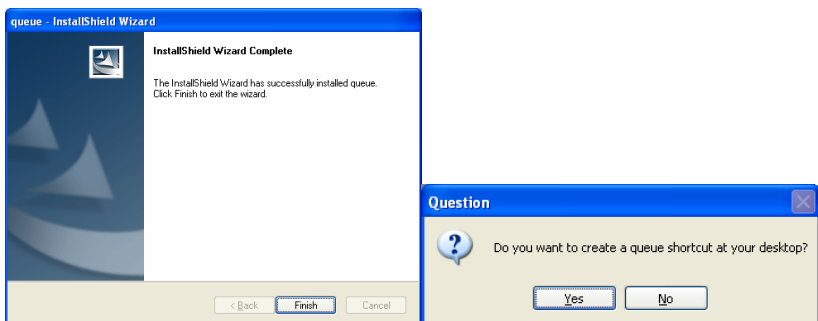
1. Please download the software queue at the following URL:
<http://www.lumens.com.tw/goto.htm>
2. Connect the DC210 to a computer through a USB interface. Refer to [**DC210 User Manual 4.3 Connecting Devices / Connecting to a computer / Connecting to a computer through USB.**](#)
3. Turn on the DC210.
4. Begin the queue installation wizard. Select the preferred language and press [Next]



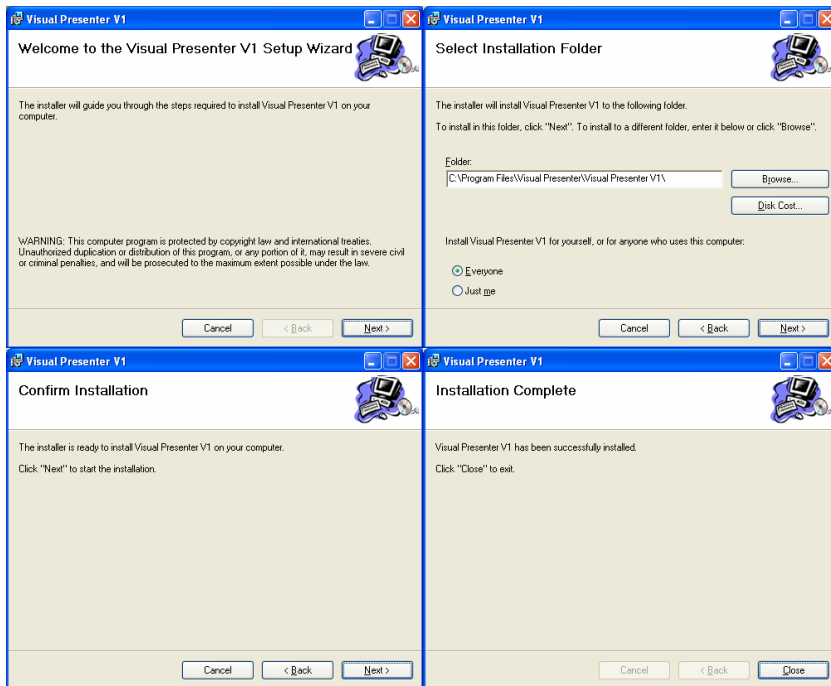
5. Press **[Next]** and follow the instructions on the screen to install the software.



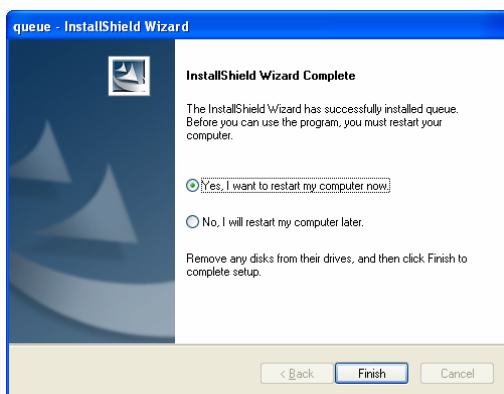
6. Once the installation is completed, press **[Finish]**. If you want to create a shortcut on the desktop, press **[Yes]**.



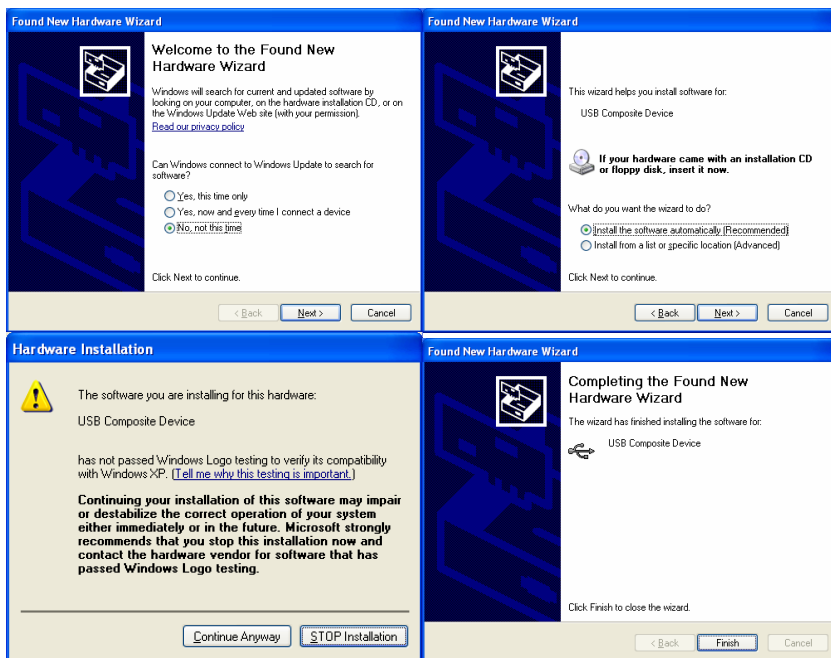
7. Then the program will automatically install the driver. Please follow the instructions on the screen to install the driver.



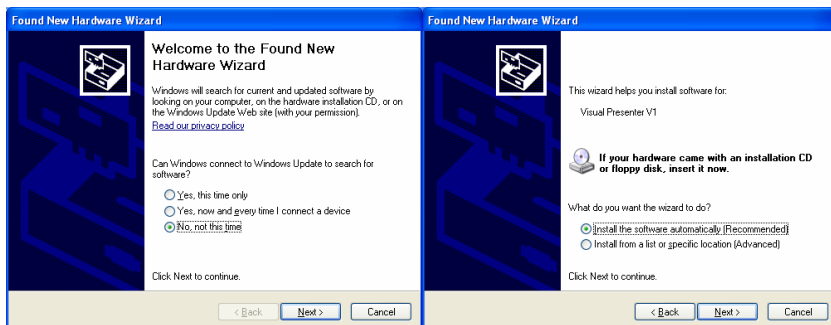
8. The installation is completed, press [Finish] to reboot the system.

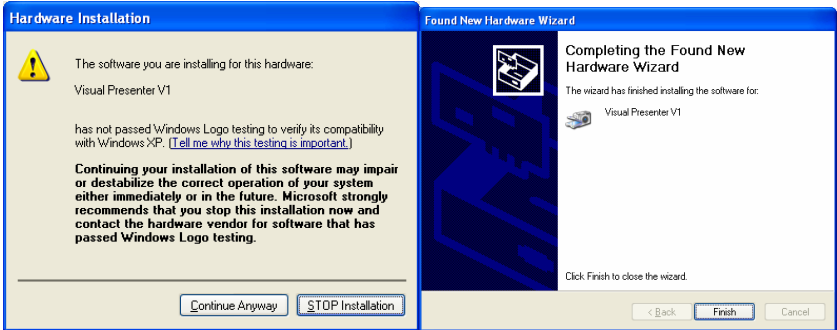


9. After the reboot, the [USB Composite Device] program will be installed automatically. Please follow the instructions on the screen to install the program.

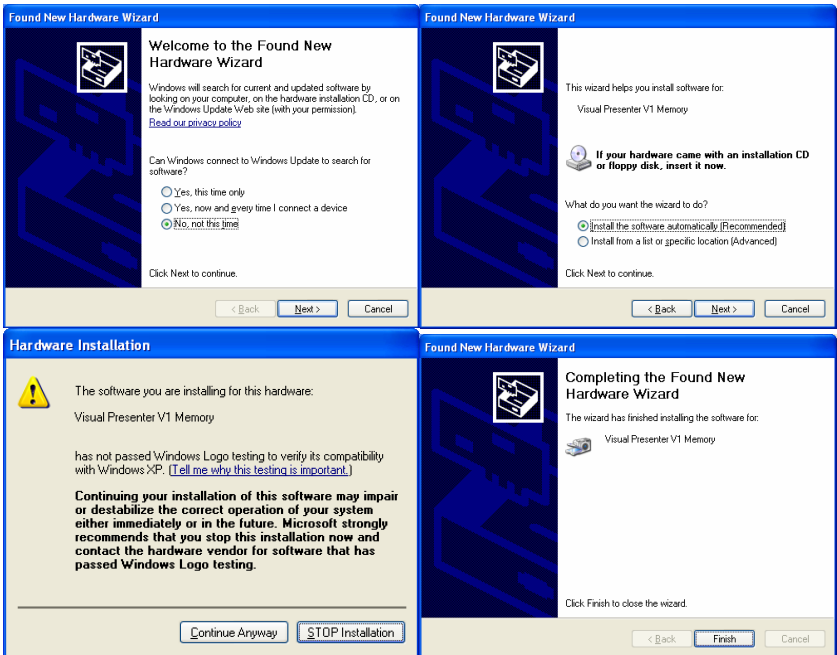


10. The [Visual Presenter V1] program will be installed automatically. Please follow the instructions on the screen to install the program.





11. The [Visual Presenter V1 Memory] program will be installed automatically. Please follow the instructions on the screen to install the program.

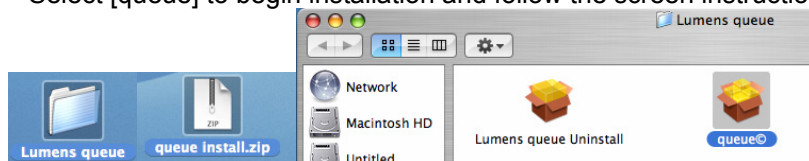


12. All installation completed.

4.6.3 Installation steps (MAC)

1. Please download the software queue at the following URL:
<http://www.lumens.com.tw/goto.htm>

2. Connect the DC210 to a computer through a USB interface. Refer to [Chapter 4 Installation and Connections 4.3 Connecting Devices / Connecting to a computer / Connecting to a computer through USB](#).
3. Turn on the DC210.
4. Select [queue] to begin installation and follow the screen instructions.



4.6.4 Verifying the installation is completed (PC)

1. Find **queue** on the desktop of the computer.



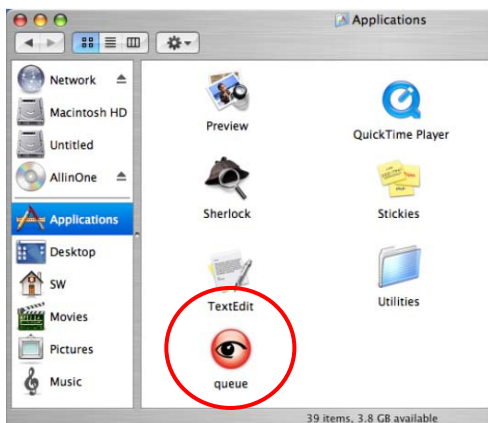
2. Double click the **queue** shortcut on the desktop or click [Start] / [Programs] / [queue].



<Remark> Please refer to the User Manual of queue for how to use it.

4.6.5 Verifying the installation is completed (MAPC)

1. Find [queue] from [Applications].



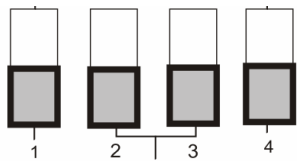
<Remark> Please refer to the User Manual of queue for how to use it.

Chapter 5 DIP Switch Settings

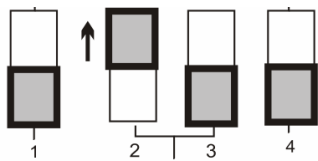
<Note>: You must re-start DC210 for DIP switching configuration to take effective.

5.1 Connecting to a projector or monitor

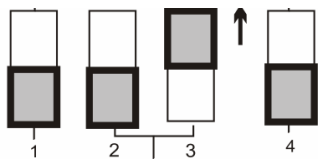
5.1.1 XGA output (default values):



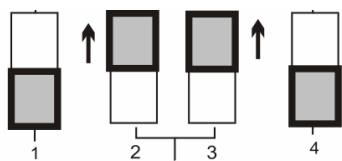
5.1.2 SVGA output



5.1.3 Reserved

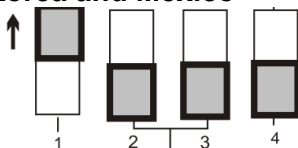


5.1.4 Reserved

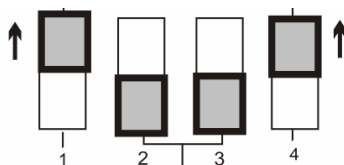


5.2 Connecting to a TV

5.2.1 NTSC: America, Taiwan, Panama, Philippines, Canada, Chile, Japan, Korea and Mexico



5.2.2 PAL: Countries/regions not listed above




<Remark> It doesn't support C-Video and VGA simultaneously. Once C-Video is on, VGA OUT is not supported.

Chapter 6 Control Panel/Remote Control and Setting Menu

6.1 Functions of control panel and remote control

<Remark> The below functions are listed alphabetically

Name	Function Descriptions	Operation
	Turn on and off the visual presenter.	Remote control / Control panel
◀, ▶, ▲, ▼	Move up, down, left or right to select the needed function.	Remote control / Control panel
AF	AF button	Both lateral sides of the Remote control / Lens.
Auto Tune	Automatically adjust the image to have the best brightness and focusing performance.	Control Panel
BRT+/-	Manually adjust the brightness of the image.	Remote control / Control panel
Capture	Capture the image to the internal memory.	Remote control / Control panel
Delete	Delete the image stored in the internal memory.	Control Panel
Enter	Enter/Activate functions.	Remote control / Control panel
Flip	Rotate the image for 180 degrees.	Remote control / Control panel
Freeze	Freeze the current image to temporarily stay on the screen. Press again to defreeze.	Remote control / Control panel
Lamp	Turn on / off the lamp.	Control Panel
Menu	Activate the setting menu function/exit menu.	Remote control / Control panel
Playback	Play the captured image.	Remote control / Control panel
Source	Switch between different sources of signals: 1. Live images (default). 2. PC	Remote control / Control panel
Zoom +/-	Increase or decrease the image size.	Remote control / Control panel

6.2 Setting Menu

6.2.1 VGA Mode

<Remark>: Press [Menu] on the remote control or control panel to enter the setting menu; The bold underlined values in the following table are the defaults.

1 st Level Major Items	2 nd Level Minor Items	3 rd Level Adjustment values	Function Descriptions
Display	Image	<u>Normal</u> /Gray/Slide/Microscope/Film	Select Normal / Gray / Film / Slide / Microscope mode
	Freeze	ON / <u>OFF</u>	Freeze the image on the screen
	Gamma	<u>Photo</u> /Text	Select Photo or Text mode
	Flip	ON / <u>OFF</u>	Rotate the image upward or downward for 180 degrees
	Digital Zoom	◁ <input type="text"/> ▷	Zoom in
	Focus	◁ <input type="text"/> ▷	Manually tune the focus
Storage	Delete	<u>Execute</u>	Delete the captured image
	Delete All	Yes/ <u>No</u>	Delete all images
	Format	Yes/ <u>No</u>	Format the memory
	Auto Erase	ON/ <u>OFF</u>	Delete all saved images automatically when the system is turned down.
Setting	Lamp	<u>ON</u> /OFF	Turn on/off the lamp
	Auto Exposure	<u>ON</u> /OFF	Auto Exposure is on
	AWB	<u>Execute</u>	Execute Auto White Balance
	Night vision	ON/ <u>OFF</u>	Set up Night Vision or cancel Night Vision
	Language	<u>English</u> / <u>Español</u>	English/ Spanish Menu
	Factory Reset	Yes/ <u>No</u>	Reset all values to default values
Advance	Preset Load	Yes/ <u>No</u>	Download the saved parameter profile, such as Brightness, Lamp, Zoom, etc.
	Preset Save	Yes/ <u>No</u>	Save the parameter profile, such as Brightness, Lamp, Zoom, etc.

6.2.2 C-Video Mode

1 st Level Major Items	2 nd Level Minor Items	3 rd Level Adjustment values	Function Descriptions
Display	Focus	0~ <u>A</u> ~200	Manually tune the focus
	Gamma	<u>Photo</u> /Text	Select Photo/Text Mode
	Image	<u>Normal</u> /Gray	Select Normal/Gray Mode
	Freeze	On/ <u>Off</u>	Freeze the image on the screen
Setting	Lamp	<u>On</u> /Off	Select Lamp On or Off
	Full Range	<u>On</u> /Off	Select full screen, 1280 x 1024
	Night Vision	On/ <u>Off</u>	Set up Night Vision or cancel Night Vision
	Factory Reset	Yes/ <u>No</u>	Reset all values to default values.

Chapter 7 Descriptions of major functions

7.1 I would like to switch image sources

The default of image source is **Live Image**. Press [SOURCE] on the **remote control** or the **control panel** to switch to Live Image (Default) and computer in turns.

7.2 I would like to make text clearer and photos more colorful

The default of [Gamma] is Photo (**Photo Mode**).

- [Photo] (default): for viewing photos or text with photos and will make the photos more colorful.
- [Text]: for viewing text files and will make the text clearer.

To change the settings, please use the **remote control** or the **control panel**:

1. Press [MENU] to enter the setting menu.
2. Press [▶] or [◀] to the [Display].
3. Press [▼] to select [Gamma]
4. Press [▼] to select [Photo/Text]. (Please refer to [the text above](#) and make the most appropriate selection).
5. Press [MENU] to exit.

7.3 I would like to zoom in /out of images

1. Press [Zoom +] on the **remote control** or **control panel** to zoom in.
2. Press [Zoom -] on the **remote control** or **control panel** to zoom out.

7.4 I would like to use the auto focus

1. Press [AF] on the **remote control**.
2. Press the **AF button** on the **camera head of main unit**.

7.5 I would like to adjust the brightness

If you use the remote control or the control panel:

1. Press [BRT +] to make it brighter
2. Press [BRT -] to make it darker

7.6 I would like to turn on / off the lamp

Control panel

1. The lamp is ON by default. Press [LAMP] to switch ON/OFF.

Remote control:

1. Press [MENU] to enter the setting menu.
2. Press [▶] or [◀] to select [Setting].
3. Press [▼] to select [Lamp].
4. Press [▶] or [◀] to switch [ON] / [OFF].

7.7 I would like to automatically adjust the image to have best brightness and focusing performance

1. Press [Auto Tune] on the **control panel**.

7.8 I would like to capture images

1. Press [Capture] on the **remote control** or **control panel**.

7.9 I would like to freeze images

1. Press [FREEZE] on the **remote control** or **control panel**.

7.10 I would like to view captured images

1. Press [PLAYBACK] on the **remote control** or **control panel** to display thumbnails of all captured images.
2. Press [▲] or [▼] or [◀] or [▶] to select the thumbnail you want you view.
3. Press [ENTER] for the full-screen display of the image.

4. Press [▶] or [◀] to turn to the previous/next image.
5. Press [PLAYBACK] to exit.
6. Press [MENU] to exit.

7.11 I would like to delete captured images

Control panel

1. Press [PLAYBACK].
2. Press [▲] or [▼] or [◀] or [▶] to select the thumbnail you want you delete.
3. Press [DEL] to delete the file.
4. Press [MENU] to exit.

Remote control:

1. Press [PLAYBACK].
2. Press [▲] or [▼] or [◀] or [▶] to select the thumbnail you want you delete.
3. Press [ENTER]
4. Press [MENU] to enter the setting menu.
5. Press [▶] or [◀] to select [Storage].
6. Press [▼] to select [Delete].
7. Press [ENTER] to confirm the deletion.

7.12 I would like to automatically delete the captured images whenever it is turned off (Auto Erase)

1. Press [MENU] on the **remote control** or **control panel** to enter the setting menu.
2. Press [▶] or [◀] to [Storage] menu.
3. Press [▲] or [▼] to [Auto Erase].
4. Press [▶] or [◀] to select [ON].
5. Press [▲] or [▼] to select [Yes].
6. Press [Enter] to activate.

7.13 I would like to resume the factory default setting (Factory Reset)

1. Press [Menu] on the **remote control** or **control panel** to enter the

setting menu.

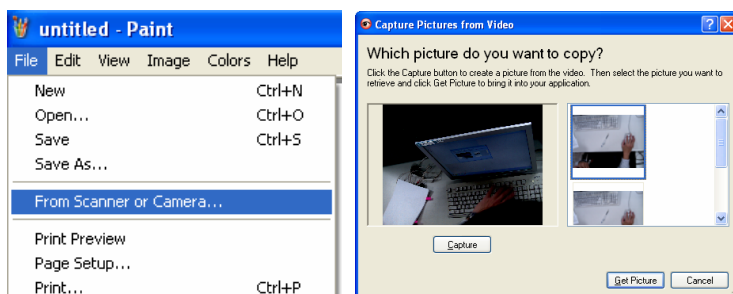
2. Press [►] or [◄] to the [Setting] menu.
3. Press [▼] to the [Factory Reset].
4. Press [►] or [◄] to select [Yes].
5. Press [Enter] to activate.

7.14 Computer-related functions

Ensure that the USB cable is connected and the drivers are installed before using the computer-related functions. Refer to [DC210 User Manual Chapter 4 Installation and Connections 4.3 Connecting Devices and 4.6 Installing Driver and Application queue](#)

7.14.1 I would like to insert a photo in MS-Paint

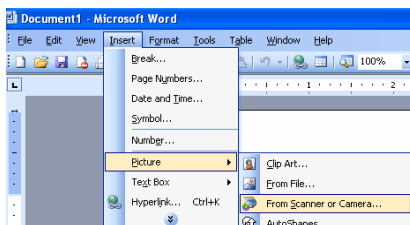
1. Click [File/From Scanner or Camera] in MS-Paint shown as the bottom left figure.



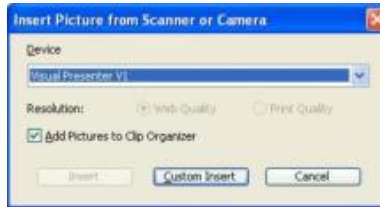
2. Click [Get Picture] will capture the photos of live images and insert the files in use shown as top right figure.

7.14.2 I would like to insert a photo in MS-Word

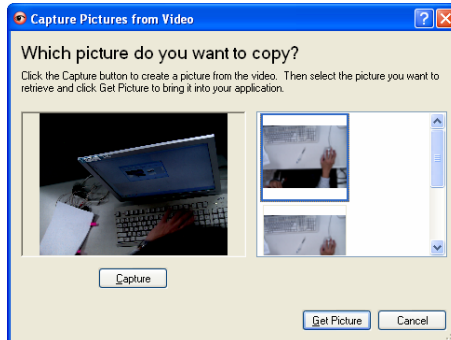
1. Click [Insert / Image / From Scanner or Camera] in *MS-Word*.



2. Select [Visual Presenter V1] and click [Custom Insert].

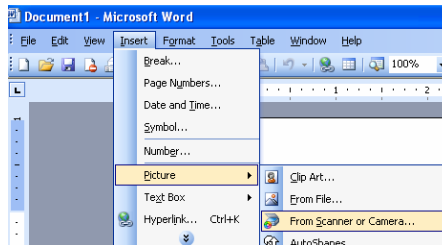


3. Click [Get Picture]. It will capture the photo of live image.



7.14.3 I would like to change the setting of DC210 then capture a photo in *MS-Word*

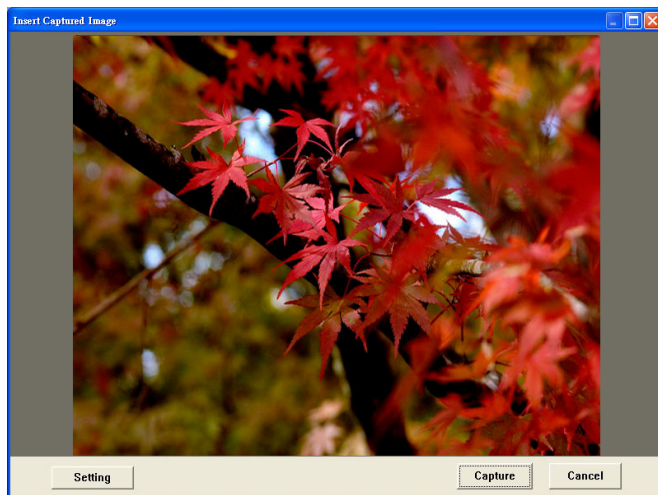
1. Click [Insert / Image / From Scanner or Camera] in *MS-Word*.



2. Select [Visual Presenter V1 TWAIN] and click [Custom Insert].



3. A window showing a live image (see below) will be displayed:



4. Press [Setting].

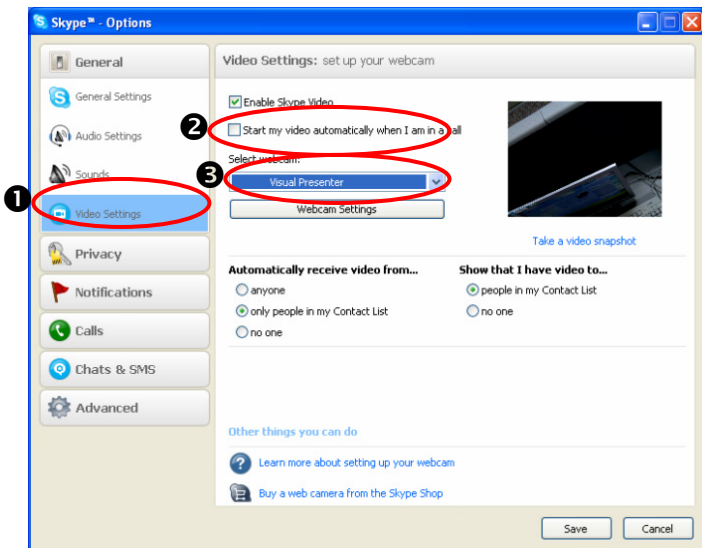
To control the DC210 via the Camera Settings interface. The operating procedure is the same with the **remote control** and **control panel** of the DC210. Refer to [DC210 User Manual Chapter 6 Control Panel / Remote Control and Setting Menu](#).

5. Press [Capture] to capture images in **MS-Word**.
6. Press [Cancel] to exit.

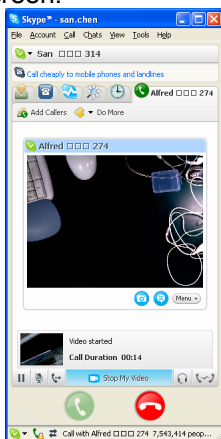
7.14.4 I would like to set the DC210 as a webcam for **Skype**

The DC210 can be used as a webcam for teleconferencing software such as **Skype** and **MSN**. The following instructions use **Skype** as an example:

1. Open **Skype** and enter [Tools] > [Options].
2. Select [Video Settings] > [webcam] > [Visual Presenter V1] and check Start my video automatically when I am in a call, as shown below.

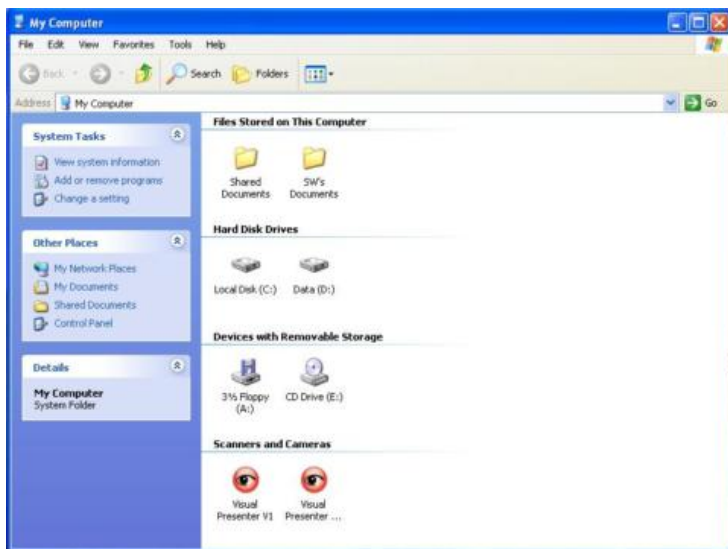


3. Start calling your contact. When both sides are connected, **Skype** will display the video screen.



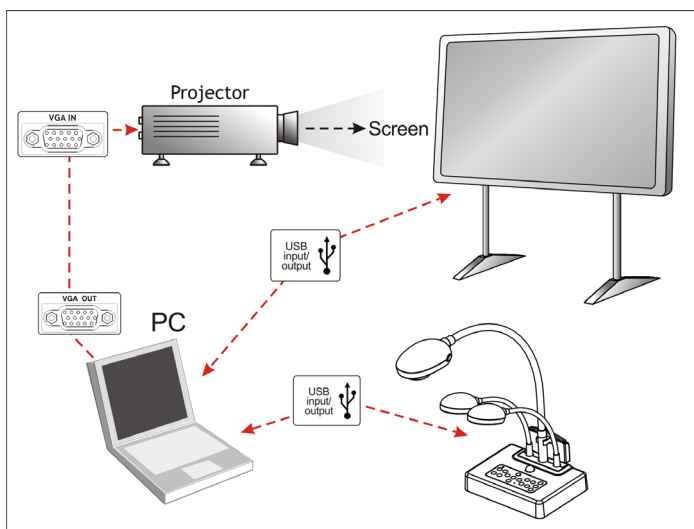
7.14.5 I would like to set the DC210 as a PC Camera

1. Click **My computer** window and select [Visual Presenter V1] to open live screen.



7.14.6 I would like to connect Interactive Whiteboard

1. System Diagram



2. Using StarBoard

2.1 Install **LuLulizer** and execute “LuLulizer.exe”

<Note> Please download LuLulizer from the website
(www.lumens.com.tw/goto.htm)

2.2 Press [StarBoard] / [LULU]



2.3 Display the live image

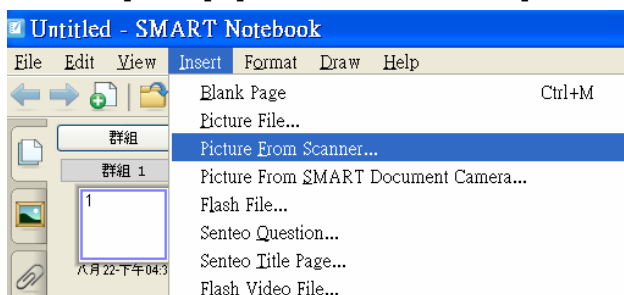


2.4 Press [StarBoard] / [Mode] / [TWAIN]

Please refer to the operations of [7.14.2 I would like to insert a photo in MS-Word](#) and [7.14.3 I would like to change the setting of DC210 then capture a photo in MS-Word](#)

3. Using StarBoard

3.1 Press [Insert] / [Picture From Scanner]



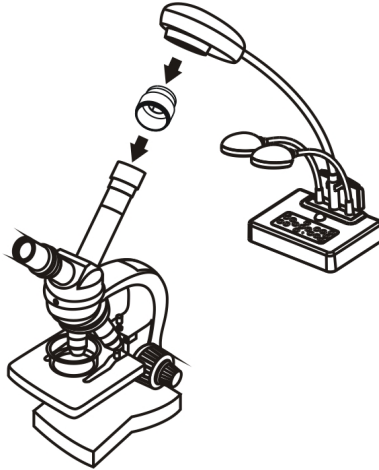
- 3.2 Please refer to the operations of [7.14.2 I would like to insert a photo in MS-Word](#) and [7.14.3 I would like to change the setting of DC210 then capture a photo in MS-Word](#)

Chapter 8 Connecting to Microscope

1 Mount the **microscope adaptor** onto the microscope.

<Note> Microscope adapter accessories are applicable to eyepieces of Ø28mm.

2 The lens of DC210 connects with the **microscope adaptor**



3 Select the **[Microscope]** Mode

3.1. If you use the **control panel** or the **remote control**

3.1.1. Press [MENU] to enter the setting menu.

3.1.2. Press [▶] or [◀] to the [Display].

3.1.3. Press [▼] to select [Mode].

3.1.4. Press [▶] or [◀] to the [Microscope].

4 If the image is not clear.

4.1. Please adjust the focus of microscope

4.2. Press the [AF] button on the DC210 camera head of main unit to activate the auto focus

Chapter 9 Troubleshooting

This chapter describes problems you may encounter while using DC210. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact our distributors or service center.

No.	Issues	Solutions
1	Boot without power	Make sure you have plugged in the power cord.
2	No image output from the DC210	<ol style="list-style-type: none">1. Check the power.2. Check the connection, Refer to DC210 User Manual Chapter 4 Installation and Connections 4.3 Connecting Devices.3. Check the [Source], refer to DC210 User Manual Chapter 7 Descriptions of major functions 7.1 I would like to switch image sources.4. Check the settings for the source of the projector. For the appropriate input selection of the projector, refer to the projectors user manual.5. Check if DIP Switch is properly set. Refer to DC210 User Manual Chapter 5 DIP Switch Settings for related settings.
3	Unable to focus	Probably the document is too close. Press [Zoom -] on the remote control or control panel . Or pull away the distance between document and lens, then press [AF].
4	The image is incomplete	Check the Auto Image setting of your projector. Please refer to the user manual of the projector
5	Visual Presenter V1, queue or other application cannot be executed simultaneously.	Visual Presenter V1, queue and other applications cannot be executed simultaneously. Only one application can be executed at a time. Please close the currently running applications and then execute the application to be used.

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